

New Claims 11 to 27

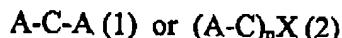
What is claimed is:

1. (Canceled)
2. (Canceled)
3. (Canceled)
4. (Canceled)
5. (Canceled)
6. (Canceled)
7. (Canceled)
8. (Canceled)
9. (Canceled)
10. (Canceled)
11. (New) A photopolymerizable composition, which comprises:
(a) from 20 to 98.9 % by weight, based on the weight of components (a) and (b), of one or more thermoplastic elastomeric block copolymers comprising a thermoplastic elastomeric block copolymer of the formula
A-C-A (1) or (A-C)_nX (2)
wherein each A independently represents a polymer block of predominantly a monovinyl aromatic hydrocarbon having an apparent molecular weight in the range of from 7,000 to 25,000, wherein n is an integer equal to or greater than 2 and wherein X is the residue of a coupling agent, and wherein each C independently represents a substantially random copolymer block (I/B) of predominantly isoprene and butadiene in a mutual weight ratio in the range of from 20/80 to 80/20, wherein said polymer block C has a glass transition

temperature (Tg) of at most 0°C, (determined according to ASTM E-1356-98), and having a vinyl bond content (the 1,2 and/or 3,4-addition polymerization of the isoprene and butadiene) in the range of from 5 to 70 mole%, said thermoplastic block copolymer having a poly(monovinyl aromatic hydrocarbon) content in the range of from 10 to 45 wt% and having an apparent molecular weight of the complete block copolymer in the range of from 100,000 to 1,500,000,

- (b) from 1 to 60 % by weight, based on the weight of components (a) and (b), of one or more photopolymerizable ethylenically unsaturated low molecular weight compounds,
- (c) from 0.1 to 10 % by weight, based on the total photomerizable composition of one or more polymerization initiators, and optionally
- (d) from 0 to 40 % by weight, based on the total photopolymerizable compositions, of one or more auxiliaries.

12. (New) The photopolymerizable composition of claim 11, wherein the thermoplastic elastomeric block copolymer of the formula



comprises at least 30% by weight of said component (a).

13. (New) The photopolymerizable composition of claim 11, wherein the weight proportions of component (a) are in the range of from 20 to 80 % by weight.

14. (New) The photopolymerizable composition of claim 12, wherein the weight proportions of component (a) are in the range of from 20 to 80 wt%.

15. (New) The photopolymerizable composition of claim 11, wherein the mutual weight ratio between isoprene and butadiene in the I/B blocks is in the range according to the equation:

$$-30 < 40 + V - I < 30$$

wherein I is the isoprene content in the I/B block and "V" is the molar ratio in percent of 1,2 or 3,4 addition polymerization in the I/B blocks.

16. (New) The photopolymerizable composition of claim 14, wherein the mutual weight ratio between isoprene and butadiene in the I/B blocks is in the range according to the equation:

$$-30 < 40 + V - I < 30$$

wherein I is the isoprene content in the I/B block and "V" is the molar ratio in percent of 1,2 or 3,4 addition polymerization in the I/B blocks.

17. (New) The photopolymerizable composition of claim 11, wherein component (b) is selected from esters or amides of acrylic acid or methacrylic acid with monofunctional or polyfunctional alcohols, amines, aminoalcohols and hydroxyl ethers or hydroxyl esters.

18. (New) The photopolymerizable composition of claim 17, wherein component (b) is selected from butyl acrylate, isodecyl acrylate, trimethylolpropane triacrylate and dipentaerythritol monohydroxypentacrylate.

19. (New) The photopolymerizable composition of claim 16, wherein component (b) is selected from esters or amides of acrylic acid or methacrylic acid with monofunctional or polyfunctional alcohols, amines, aminoalcohols and hydroxyl ethers or hydroxyl esters.

20. (New) The photopolymerizable composition of claim 11, wherein the weight proportions of component (b) are in the range of from 5 to 30 % by weight, relative to the weight of components (a) and (b).

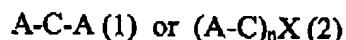
21. (New) The photopolymerizable composition of claim 19, wherein the weight proportions of component (b) are in the range of from 5 to 30 % by weight, relative to the weight of components (a) and (b).

22. (New) The photopolymerizable composition of claim 11, wherein the weight proportions of component (c) are in the range of from 0.5 to 5% by weight, relative to the weight of the total copolymerizable composition.

23. (New) The photopolymerizable composition of claim 21, wherein the weight proportions of component (c) are in the range of from 0.5 to 5% by weight, relative to the weight of the total copolymerizable composition.

24. (New) A flexographic printing plate derived from a photopolymerizable composition, said flexographic printing plate comprising a support layer, an optional adhesive layer and/or antihalation layer, one or more photopolymerizable layers, an optional elastomeric intermediate layer and a cover layer, said one or more photopolymerizable layers comprising:

(a) from 20 to 98.9 % by weight, based on the weight of components (a) and (b), of one or more thermoplastic elastomeric block copolymers comprising a thermoplastic elastomeric block copolymer of the formula



wherein each A independently represents a polymer block of predominantly a monovinyl aromatic hydrocarbon having an apparent molecular weight in the range of from 7,000 to 25,000, wherein n is an integer equal to or greater than 2 and wherein X is the residue of a coupling agent, and wherein each C independently represents a substantially random copolymer block (I/B) of predominantly isoprene and butadiene in a mutual weight ratio in the range of from 20/80 to 80/20, wherein said polymer block C has a glass transition temperature (Tg) of at most 0°C, (determined according to ASTM E-1356-98), and having a vinyl bond content (the 1,2 and/or 3,4-addition polymerization of the isoprene and butadiene) in the range of from 5 to 70 mole%, said thermoplastic block copolymer having a poly(monovinyl aromatic hydrocarbon) content in the range of from 10 to 45 wt% and having an apparent molecular weight of the complete block copolymer in the range of from 100,000 to 1,500,000,

(b) from 1 to 60 % by weight, based on the weight of components (a) and (b), of one or more photopolymerizable ethylenically unsaturated low molecular weight compounds,

(c) from 0.1 to 10 % by weight, based on the total photomerizable composition of one or more polymerization initiators, and optionally

(d) from 0 to 40 % by weight, based on the total photopolymerizable compositions, of one or more auxiliaries.

25. (New) The flexographic printing plate of claim 24, wherein the support layer comprises sheets of various film-forming synthetic polymers selected from polyester and polyester/polyamide sheets.

26. (New) The flexographic printing plate of claim 24, wherein the sheets are polyethylene terephthalate sheets.

27. (New) A flexographic printing relief form, prepared from the flexographic printing plate of claim 24.